

U.S.S.

TORPEDO BOAT DESTROYER NO.

BOOKLET OF GENERAL PLANS

-	SUMBER AND ORDER OF PLANS.
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2	OUTBOARD PROFILE
3	INBOARD PROFILE
4	BRIDGE DECK
5	MAIN DECK
6	PLATFORM DECK
7	HOLD
8	CROSS SECTIONS

CORRECTED TO SUIT SHIP.				
PLACE	DATE	CONSTRUCTION OFFICER		
QUINCY, MASS.	7-24-20	Awelian		
	CORP. CORP. SECTION STREET			

OFFICE OF
SUPERINTENDING CONSTRUCTOR
FOR U. S. NAVY
QUINCY, MASS. JULY 31, 1920
CONSTRUCTOR'S NO. 42
FORWARDED WITH LETTER NO. 21-2-D
R. W1111cms.

DESTROYERS 79 TO 868 95 TO 102.

NOS 79 TO 86 AND NOS 95 TO 102

GENERAL INFORMATION	
LENGTH BETWEEN PERPENDICULARS (F.P. & STA.40)	
PROJECTION FORWARD OF F.P.	
" AFT. " 5TA.40	1
LENGTH OVER ALL	314-4
" ON P.W.L.	310-1
LENGTH OF STRAIGHT KEEL (FR.7 TO FR.160)	268:
BREADTH, MOLDED, EXTREME	30-1
	31-8
" MOLDED AT TRIAL W.L.	30-6
RATIO, LENGTH TO BEAM	10.0
DRAFT, DESIGNERS W.L. TO BOTTOM OF KEEL	9-1
DISPLACEMENT, TO DESIGNERS W.L. IN TONS (ESTIMATED 273.2 TONS FUEL OIL & 25.52 TON RESERVE FEED WATER)	1183
DEPTH MLD MAIN DECK AT SIDE FR. 88 (1-0 FORD OF M.P.)	
DISPLACEMENT TONS PER INCH AT 9-13/4 DRAFT	15.
AREA, MIDSHIP SECTION TO D.W.L. 9-13/4 IN SE FEET	21
AREA D.W.L. PLANE	65h
. 76"	

BREADTH AT D.W.L. (MOLDED & 1/2 THICKNESS OF PLATE) 30-9"

C.G. OF D.W.L.	PLANE AFT	OF FR. 88 (WHICH IS 12" FORD OF M.P.)	6-0
			1'-6
TRANSVERSE	METACENT	TRE ABOVE C.G. (FROM COND. III INC. EXF. KIMBERLY"	2.03
LONGITUDINA			743.40
		NESS. BLOCK	.46
		MID-SECTION	
		D.W.L.	. 61
		CYLINDRICAL	
RUDDER A	S FORD OF	F STA. 40	6-4
		ACING 21"	
		COMPTS.	THE RESERVE OF THE PARTY OF THE PARTY OF THE PARTY.
SHAFT STR	UTS FORD	OF A.P.	21-
SHAFTS INC	LINE DOWN	AND AFT P. &S.	3°- 33'- 14"
SHAFTS DIV	ERGE FROM	1 É P. & 5.	20-42-33"
& OF SHAFT	FROM & C	F SHIP AT FR 99	2-7
			5-1
	ABOVE MO	OLDED BASE AT FR.99	10:41
			6-2
PROPELLE	RS TWO 3	BLADEP DIA	9-0
		1	
	EXPANO	DED AREA IN SG. FT.	44.9
	PROJEC		
	THE RESERVE OF THE PARTY OF THE		

& FOR'D OF A.P.

TURBINES.

MAIN PROPELLING MACHINERY

THERE ARE TWO PROPELLING SHAFTS AND PROPELLERS EACH

DRIVEN THROUGH A REDUCTION GEAR BY ONE H.P., ONE I.P.

AND ONE L.P. HIGH SPEED CURTIS TURBINES, THE TURBINES

DRIVING THE STARBOARD PROPELLER ARE ARRANGED IN THE

AFTER ENGINE ROOM. THE SHAFTS TURNING OUTBOARD

THE H.P. AND I.P. TURBINES ARE ARRANGED IN TANDEM AN

THE H.P. AND I.P. TURBINES ARE ARRANGED IN TANDEM AND CONNECTED DIRECTLY TO THE OUTBOARD PINION OF EACH REDUCTION GEAR AND THE L.P. AND ASTERN TURBINES, ARRANGED IN ONE CASING. ARE CONNECTED DIRECTLY TO THE INBOARD PINIONS, BOTH INBOARD AND OUTBOARD PINIONS, IN ONE CASING, DRIVING ONE MAIN GEAR WHICH IS COUPLED DIRECTLY TO ITS RESPECTIVE LINE SHAFT: R. P. M.
H.P. & I.P. TURBINES 3200

H.P. & I.P. TURBINES 3200 L.P. 3000 PROPELLERS 452 S.H.P. TOTAL 27000

TWO CONDENSERS CURVED TUBE TYPE
TOTAL COOLING SURFACE ALL CONDENSERS 1519 SQ.FT.

BOILERS

FO	UR YARROW "EXPRESS" TYPE LBS. PRESS. (WORKING)	265
TO	TAL HEATING SURFACE IN SQ.FT.	27540
· NO	OF OIL BURNERS (12 PER BOILER)	48
DI.	AM. OF MAIN STEAM PIPE	10%
	OUR FUNNELS, HEIGHT ABOVE KEEL (AVERAGE)	47.9"

BATTERY.

4-4" GUNS MARK IX MOUNT MARK XII

NO.1 MAIN DK & AT FR. 28 TRAIN 90 FORD __ 65° AFT P&5

NO.4 MAIN DK & AT FR. 163 " 55° " ___ 90° " "

NO.2 THE PROBLEY FR. 76 PORT " 87½" ___ 85° " P

NO.3 THE PROBLEY " 76 STB10 " 87½" ___ 85° " 5

2-1 PPR AUTOMATIC ANTI AIRCRAFT GUNS MARK VI MOUNT MARK VII NO.1 AUTOMATIC ANTI AIRCRAFT GUN MAIN DECK FR. 36. & NO.2 "FR.61 PORT

4-68 M. X 21" TRIPLE TORPEDO TUBES - DECK

NO 1 MAIN DECK FR 96 PORT, TRAIN 60° FORD 60° AFT P.

NO 2 FR 106 5TBD 60° 60° 5.

NO 3 FR 127 PORT. 60° 60° P.

NO 4 FR 138 STBP. 60° 60° 5

COMPLEMEN

	COMPLEMENT.	
I COMMANDING OFFICER	PETTY OFFICERS	
TWARD ROOM OFFICERS	CREW	112
12 CHIEF PETTY OFFICERS	TOTAL ON BOARD	132
	LIST OF BOATS	

1- 24 FOOT MOTOR SAILING LAUNCH_____NO. OF MEN______19

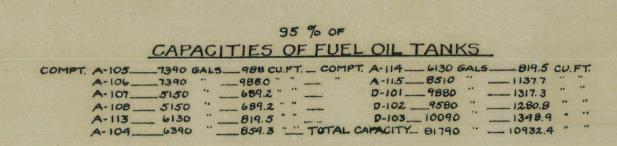
1-21 FOOT MOTOR DORY_____

1-10 FOOT PUNT____

1-14 FOOT WHERRY____

CI	APACITIES	5 OF	WATER	TANKS
FRESH WATER TA	ANK B-103	2879	GALS	TONS F.W10.69
	· B-104	2879		
PRSERVE EEED	" C-101	6872		25.52

COFFERDAM		_6872 "		
CAPAC	ITIES OF PE	AK& TRIMM	ING TANK	5.
	1513 GAL5	5.62 TONS	The Control of the Co	5.78 TONS SW
	3638 "	13.51 "	" :	13.90 " "



HEIGHTS ABOVE DESIGNERS W.L. D.W.L. 15 9-1/4" ABOVE MID. BASE LINE AND 9-13/4" ABOVE BOTTOM OF KEEL. MASTS:-TO TOP FOREMAST 95-10/2: TO BOTTOM TO MAIN TRUCK LIGHT 95-10/2"

	M FORD	
	- APT	
BRIDGE (ON FR.48) AT 5	IDE 29'3 AT CENTERLINE	
TOP OF GALLEY HOUSE (FR.76)	
TOP OF MAIN DECK PLATI	NG AT STERN	
TOP OF AFTER DECK HOUS	5E(FR.150)	
	P 24'-2'/2" CEN. OF GUN NO.3 A	

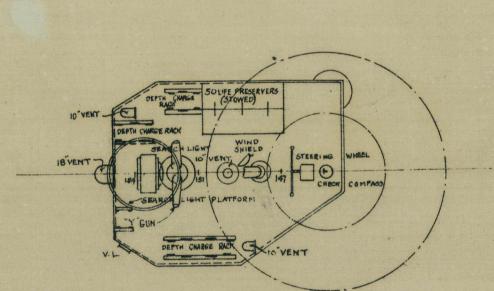
" NO.1" 284-19-93/4" NO.2 " NO.2 " 61 P - 18-11/2"

"TORE TUBES NO.1 AT FR. 98 R-14-9" TORE TUBES NO.3 AT FR. 127 P - 13-11/2"

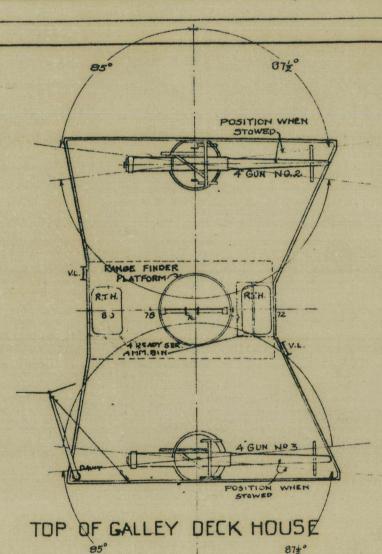
"NO.2" 1065-14-9" NO.4 1385-13-4/2"

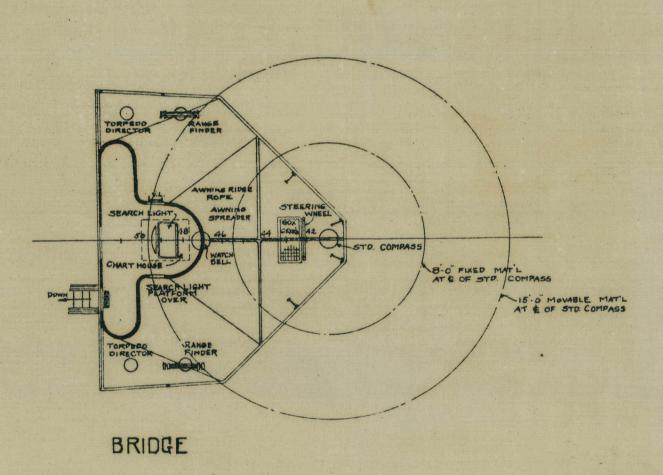
"SEARCHLIGHT AT FR. 49-33-2" SEARCHLIGHT AT FR. 153-26-6"

BELL AND CLASS T. B.D. 79-86 BELL AND CLASS T. B.D. 95-102



TOP OF AFTER DECK HOUSE.





BELL AND CLASS T. B. D. 79-86 BELL AND CLASS T. B.D. 95-102.

